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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/065,125	09/19/2002		Joerg Wohlfahrt	2001P18279US	9769
31366	7590	03/01/2004		EXAMINER	
HORIZON IP PTE LTD				HOANG, HUAN	
166 Kallang Way 6th Floor				ART UNIT	PAPER NUMBER
SINGAPORE 349249,				2818	
SINGAPORE				DATE MAILED: 03/01/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)						
•	10/065,125	WOHLFAHRT ET AL.						
Office Action Summary	Examiner	Art Unit						
	Huan Hoang	2818						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.135(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) Responsive to communication(s) filed on								
,_	nis action is non-final.	procedution as to the mosts is						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims								
4) Claim(s) 1-14 is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.	:							
6)⊠ Claim(s) <u>1-14</u> is/are rejected.								
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/o	or election requirement.							
Application Papers		•						
9) The specification is objected to by the Examine								
10)☐ The drawing(s) filed on is/are: a)☐ acce								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12)☐ The oath or declaration is objected to by the E	xaminer.							
Pri rity under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) ☐ All b) ☐ Some * c) ☐ None of:								
 Certified copies of the priority document 	ts have been received.							
2. Certified copies of the priority documen	ts have been received in Applica	ation No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
14)☐ Acknowledgment is made of a claim for domes	tic priority under 35 U.S.C. § 119	e) (to a provisional application).						
a) The translation of the foreign language pr 15) Acknowledgment is made of a claim for domes	ovisional application has been re	eceived.						
Attachment(s)								
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informa	ary (PTO-413) Paper No(s) al Patent Application (PTO-152)						

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DETAILED ACTION

Drawings

1. Figures 1 and 2 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Kawakubo et al..

Kawakubo et al. (Fig. 17) shows an integrated circuit having all the elements as recited in claims as follows:

- a plurality of memory cells (left QM0-QM15) coupled in series to form a first group;
- a bitline (BL0) coupled to a first end of the group; and

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a first section switch (left QREF) coupled to a second end of the group and a plateline (PL), the section switch, when activated, selectively couples the plateline to the group.

With respect to claims 3-6, the second memory group and a second section switch are considered the plurality of memory cells (right QM0-QM15) and right QREF, respectively.

Claim Rejections - 35 USC § 103

4. Claims 7-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kawakubo et al..

The only difference between claims 7-14 and Kawakubo et al. is the use of a complementary bitline. However, the use of a complementary bitline and a bitline to form a bitline pair is well-known in the art to provide complementary signals to the memory cells. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Kawakubo et al. by using a complementary bitline in order to provide complementary signals to the memory cells in a memory device.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Takeuchi et al. discloses a ferroelectric memory device.

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Huan Hoang whose telephone number is (703) 305-3494. The examiner can normally be reached on Mon-Fri 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David C Nelms can be reached on (703) 308-4910. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7724 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Huan Hoang Primary Examiner Art Unit 2818

HH November 25, 2002